

5 SEQUENCE LISTINGS

<110> Maxygen ApS

<120> Factor VII or VIIa-like molecules

10 <130> 0212WO100

<140>

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15 <160> 11

<170> PatentIn Ver. 2.1

<210> 1

20 <211> 406

<212> PRT

<213> Homo sapiens

<220>

25 <221> MOD_RES

<222> (6)..(35)

<223> Xaa = gamma carboxyglutamic acid or glutamic acid

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20 25 30

35 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp
35 40 45

40 Gln Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln
50 55 60

Leu Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn
65 70 75 80

45 Cys Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly
85 90 95

Gly Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys
100 105 110

50 Arg Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr
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55 Pro Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg
130 135 140

Asn Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro
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 aat gcc ttt ctg gaa gag ctc cgc cct ggc tcc ctg gaa cgc gaa tgc 165
 Asn Ala Phe Leu Glu Glu Leu Arg Pro Gly Ser Leu Glu Arg Glu Cys
 5 10 15
 aaa gag gaa cag tgc agc ttt gag gaa gcc cgg gag att ttc aaa gac 213
 Lys Glu Glu Gln Cys Ser Phe Glu Glu Ala Arg Glu Ile Phe Lys Asp
 20 25 30
 gct gag cgg acc aaa ctg ttt tgg att agc tat agc gat ggc gat cag 261
 Ala Glu Arg Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp Gln
 35 40 45
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 Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln Leu
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 Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn Cys
 70 75 80
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 Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly Gly
 85 90 95
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 Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys Arg
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 Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg Asn
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 Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro Lys
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 Gly Glu Cys Pro Trp Gln Val Leu Leu Val Asn Gly Ala Gln Leu
 165 170 175
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 Cys Gly Gly Thr Leu Ile Asn Thr Ile Trp Val Val Ser Ala Ala His
 180 185 190
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5 Cys Phe Asp Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu Gly
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10 gaa cac gat ctg tcc gag cat gac ggg gac gaa cag tcc cgc cgg gtg 789
Glu His Asp Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg Val
210 215 220 225

15 gct cag gtc atc att ccc tcc acc tat gtg cct ggc acg acc aat cac 837
Ala Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn His
230 235 240

20 gat atc gct ctg ctc cgc ctc cac cag ccc gtc gtg ctc acc gat cac 885
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25 gtc gtg cct ctg tgc ctg cct gag cgg acc ttt agc gaa cgc acg ctg 933
Val Val Pro Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg Thr Leu
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30 gct ttc gtc cgc ttt agc ctc gtg tcc ggc tgg ggc cag ctg ctc gac 981
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35 cgg ggc gct acc gct ctc gag ctg atg gtg ctc aac gtc ccc cgg ctg 1029
Arg Gly Ala Thr Ala Leu Glu Leu Met Val Leu Asn Val Pro Arg Leu
290 295 300 305

40 atg acc cag gac tgc ctg cag cag tcc cgc aaa gtg ggg gac tcc ccc 1077
Met Thr Gln Asp Cys Leu Gln Gln Ser Arg Lys Val Gly Asp Ser Pro
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45 aat atc acg gag tat atg ttt tgc gct ggc tat agc gat ggc tcc aag 1125
Asn Ile Thr Glu Tyr Met Phe Cys Ala Gly Tyr Ser Asp Gly Ser Lys
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50 gat agc tgc aag ggg gac tcc ggc ggg ccc cat gcc acg cac tat cgc 1173
Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr Arg
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Gly Thr Trp Tyr Leu Thr Gly Ile Val Ser Trp Gly Gln Gly Cys Ala
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60 acg gtg ggg cac ttt ggc gtc tac acg cgc gtc agc cag tac att gag 1269
Thr Val Gly His Phe Gly Val Tyr Thr Arg Val Ser Gln Tyr Ile Glu
370 375 380 385

65 tgg ctg cag aag ctc atg cgg agc gaa ccc cgg ccc ggg gtg ctc ctg 1317
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75 <210> 3

5 <211> 406
 <212> PRT
 <213> Homo sapiens

<400> 3

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 Leu Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn
 65 70 75 80
 20 Cys Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly
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 Gly Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys
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 Arg Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr
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 30 Lys Gly Glu Cys Pro Trp Gln Val Leu Leu Leu Val Asn Gly Ala Gln
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 35 His Cys Phe Asp Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu
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 Gly Glu His Asp Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg
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 Val Ala Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn
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 40 His Asp Ile Ala Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp
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 His Val Val Pro Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg Thr
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 50 Pro Asn Ile Thr Glu Tyr Met Phe Cys Ala Gly Tyr Ser Asp Gly Ser
 325 330 335
 Lys Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr
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 Arg Gly Thr Trp Tyr Leu Thr Gly Ile Val Ser Trp Gly Gln Gly Cys
 355 360 365
 55 Ala Thr Val Gly His Phe Gly Val Tyr Thr Arg Val Ser Gln Tyr Ile
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 60 Leu Arg Ala Pro Phe Pro
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<210> 4
<211> 1357
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Expression
cassette for expression of FVII in mammalian cells

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gcgcgtcagc cagtacattg agtggctgca gaagctcatg cggagcgaac cccggcccgg 1320
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<210> 5
<211> 31
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Primer
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<210> 6
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<212> DNA
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5 <223> Description of Artificial Sequence: Primer
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50 <210> 10
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